# Making the Switch to NATURAL GAS VEHICLES

- The Smithtown Story -

## **A Suburban Community**

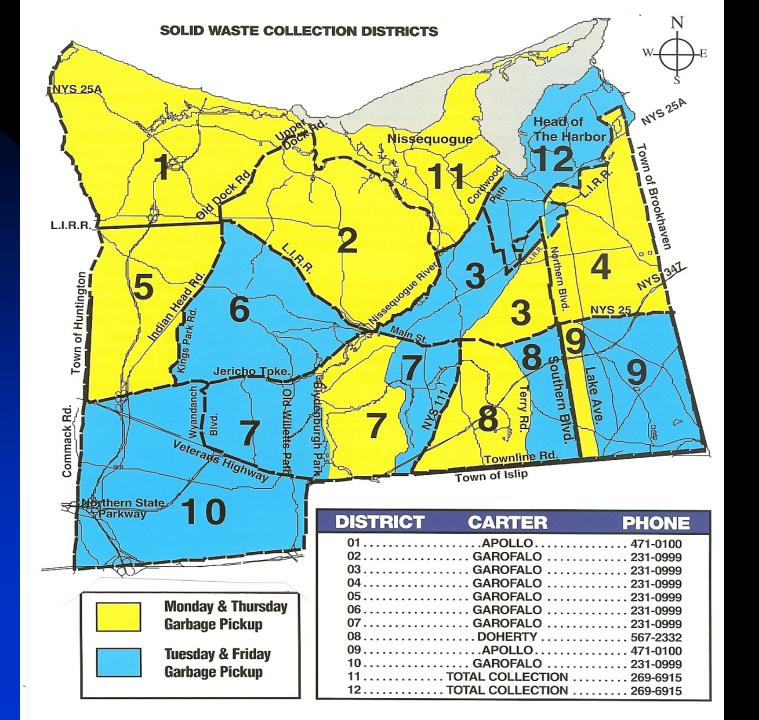
50 Miles from New York City

Area: 56 Sq. Miles

Population: 116,000

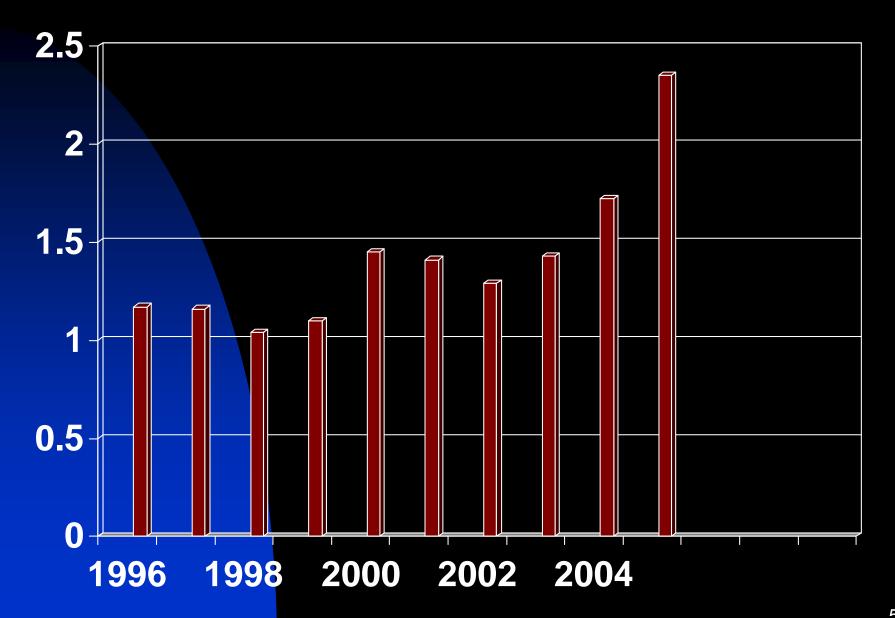
Households: 36,000

Density: ¼ - ½ acre





### **U.S. AVERAGE DIESEL PRICE PER GALLON**







Greening Garbage Trucks: Trends in Alternative Fuel Use, 2002 - 2005

By James S. Cannon

INFORM, Ipc. 120 Wall Street, 14th Floor New York, NY 10005-4001 Tel 212 361-2400 Fax 212 361-2412 Site www.informine.org

## **Increased Vendor Interest Due To:**

- \* Reduced Risk Due To Fuel Price Stability
- \* An Even Playing Field For All Vendors

  Due To The Universal Need For New Equipment
- \* Desire Not To Be Left Behind By Changing Technology
- \* Free Publicity & Possible New Business





100 % CNG Fueled Crane Carrier LET2 with Cummins Westport L Gas Plus Engine Dynetek Industries Fuel System - Pedestal Mounted

## Town of Smithtown CNG Refuse Collection

Incremental Fleet Cost

\$7.38 per home per year

Fuel Savings based on vendor '07 diesel price

-\$10.72 per home per year

Total CNG Program Cost

-\$3.34 per home per year

FUEL SAVINGS EXCEED INCREMENTAL COSTS

## Clean Energy Public Access CNG Motor Vehicle Fueling Station Hauppauge, New York

(2) 2,000 SCFM (1,000 GGE/Hr Capacity) ANGI International Compressors



#### Elgin Broom Bear Single Engine CNG Alternative Fuel

#### Low Emissions - Highly Economical - Single Engine

The Elgin Broom Bear is powered by compressed natural gas. This means that a popular, commercial chassis, fully OEM manufactured, single engine mechanical sweeper is available. This rugged, mechanical sweeper is powered by the state of the art Cummins 8.3G+ natural gas engine making the Broom Bear a fully EPA/CARB/ULEV certified single engine street sweeper. The Broom Bear can also be SCAQMD rule 1186 compliant with the optional PM-10 package. With it's four 3600 psi composite fuel tanks, the Broom Bear has a generous 53 gallon diesel equivalent fuel capacity giving a sweeping range even beyond the standard diesel Broom Bear. The Elgin Broom Bear is still tough on dust and debris while being easy on operators, but is also easy on the environment.



For more information or a demonstration, please contact your local Elgin dealer.



Conveniently located fill panel



Easy fuel system service at rear of sweeper





#### "Replacing Older Diesel Engines with Clean Gaseous Fueled Engines" 265hp(198kw)

Phoenix NG 7.6L Product Specification

Durability through innovative design

#### **General Data**

Ratings: 175-265 hp (hp/torque mapped to meet critical payloads) 460-820 lb-ft Combustion System Dedicated Spark-Ignited After Cooler Air to Air Four cycle, In-Line Six Engine Type Aspiration Turbocharged Compression Ratio 10.5:1 Fumigation Displacement 7.6 Liters

#### Features and Benefits

Patented technology delivers up to 265 hp with superior torque rise (up to 820 lb-ft), for quicker response, improved acceleration and pulling power. Designed with Wet-Type cylinder liners and cryogenically hardened combustion components for improved heat dissipation and heat resistance to extend product and emission life cycle. Two Year parts & labor warranty (unlimited miles).

#### **Fuel System**

- Stoichiometric, Closed loop Adaptive Learn Technology
- Computerized control management for on-demand peak performance and emission control
- Adaptive Fuel Types: CNG, LNG, Propane
- SwRI test results (g/bhp-hr): NOx 0.513, NMHC 0.059, PM 0.009
- EPA Certification (g/bhp-hr): NOx+NMHC = 0.8, PM = 0.01
   Specifications and design subject to change without notice

Patent No.: US 6,910,269

Emission Solutions, Inc 2001 Central Circle, Suite 106, McKinney, TX 75069, Phone 972.369.0099 www.emissionsolutionsinc.com info@emissionsolutionsinc.com

11122005 rev 4

#### PRODUCT × Dedicated Natural Gas Ford Pickup



Powered by clean-burning CNG, this Ford 5.4L Pickup meets CARB LEV-II SULEV and EPA Tier-2 Bin-6.

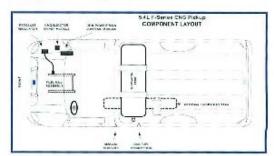
#### **Dedicated CNG F-Series Pickup**

BAF Technologies has expanded the use of our Calcomp sequential fuel injection (SFI) system to include select models of the Ford 5.4L F-150/250/350 (up to 13K GVWR). Certified by both CARB and EPA.



#### System Overview

- × Operates on dedicated Compressed Natural Gas.
- × Controls the CNG system using the original PCM.
- × System faults illum nate the "Check Engine" light.
- » Diagnose using OEM scanner or generic scan tool.
- $\, imes\,$  Order from your dealer with a CNG system option.
- × Fully OBD-II Compliant



#### Contact:

Bill Calvert, VP Sales bcalvert@baftechnologies.com

John Sledge, General Sales Manager jaledge@baftechnologies.com

www.BAFtechnologies.com





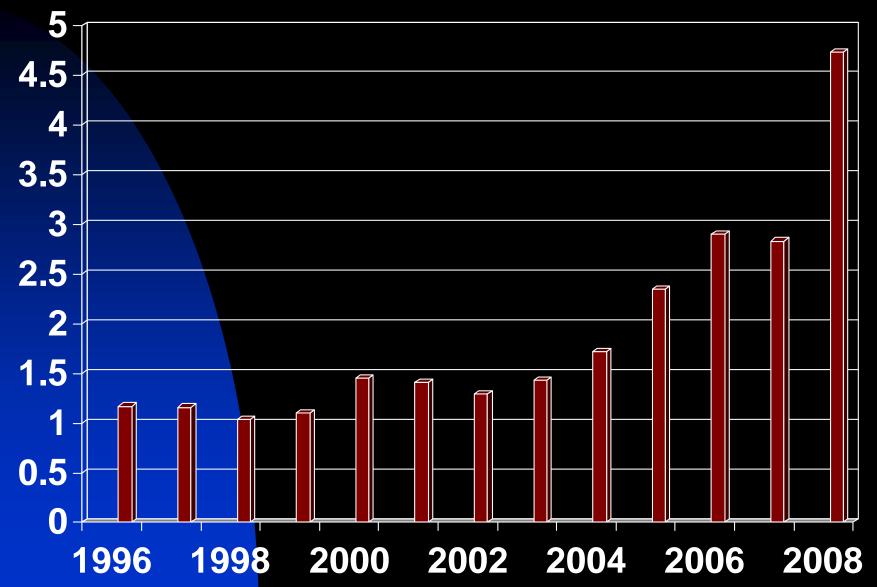
## **Natural Gas**

- Cleaner
- Cheaper
- More Secure
- Long Term Fixed Pricing
- Proven Technology

## **Contact Information:**

Russell K. Barnett, Director
Town of Smithtown
Department of Environment & Waterways
124 West Main Street
Smithtown, NY 11787
(631) 360-7514

## U.S. AVERAGE DIESEL PRICE PER GALLON



<sup>\*</sup> Prices in US dollars (including taxes) in July of each year per United States Energy Information Administration